

**DISCUSSION OF REQUIREMENTS FOR STCW  
TANKER OPERATIONS ENDORSEMENTS**

1. GENERAL.

- a. This enclosure provides guidance for mariners to qualify for the following International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended (STCW) endorsements:
  - 1) Advanced Oil Tanker Cargo Operations (46 Code of Federal Regulations (CFR) 13.603);
  - 2) Advanced Chemical Tanker Cargo Operations (46 CFR 13.605);
  - 3) Advanced Liquefied Gas Tanker Cargo Operations (46 CFR 13.607);
  - 4) Basic Oil and Chemical Tanker Cargo Operations (46 CFR 13.609); and
  - 5) Basic Liquefied Gas Tanker Cargo Operations (46 CFR 13.611).
- b. As specified in 46 CFR 15.860 and STCW Regulations V/1-1 and V/1-2:
  - 1) Officers and ratings assigned specific duties and responsibilities related to cargo or cargo equipment on liquefied gas tankers or oil and/or chemical tankers must hold an STCW endorsement for Basic Liquefied Gas Tanker Cargo Operations or Basic Oil and Chemical Tanker Cargo Operations, as appropriate to the vessel.
  - 2) Masters, Chief Mates, and any person with immediate responsibility for loading, discharging, care in transit, handling of cargo, tank cleaning, or other cargo-related operations on oil, chemical, or liquefied gas tankers must hold an STCW endorsement for Advanced Oil Tanker Cargo Operations, Advanced Chemical Tanker Cargo Operations, or Advanced Liquefied Gas Tanker Cargo Operations as appropriate to the vessel.
  - 3) Chief Engineer and First Assistant Engineer officers, and any person with immediate responsibility for maintaining both the cargo systems and equipment for the transfer of liquid cargoes in bulk on oil tankers must hold an STCW endorsement for Advanced Oil Tanker Cargo Operations, Advanced Chemical Tanker Cargo Operations, or Advanced Liquefied Gas Tanker Cargo Operations as appropriate to the vessel. These endorsements may have a limitation to maintenance and repair of cargo equipment. If a mariner holds an endorsement with this limitation, they may not act as the person in charge (PIC).
- c. As specified in 46 CFR 15.860(h), mariners with national tankerman endorsements are required to possess the appropriate STCW tanker cargo operation endorsements as listed in the table below when working aboard tank vessels certified for voyages beyond the boundary line, which is described in 46 CFR Part 7. Mariners are reminded that they are

still bound by any limitations and restrictions on their national tankerman endorsements, even if these limitations and restrictions do not appear on their STCW endorsements.

- d. Although mariners are not required to have current Basic Training to qualify for STCW tanker cargo operation endorsements, in order to serve on a seagoing tank vessel of 500 GT or more, mariners must hold the appropriate STCW tanker cargo operation endorsement and have currently valid Basic Training (46 CFR 15.1105).

<b>National Endorsements and STCW Equivalents</b>		
<b>National Endorsement</b>	<b>STCW Endorsement</b>	<b>Limitations/Comments</b>
Tankerman-Assistant DL	Basic Oil and Chemical Tanker Operations	STCW endorsement is a single endorsement valid for service on both oil tankers and chemical tankers.
Tankerman-Assistant LG	Basic Liquefied Gas Tanker Operations	
Tankerman-PIC DL	Advanced Oil Tanker Operations <i>or</i> Advanced Chemical Tanker Operations	Mariners should have the endorsement appropriate to the vessel's cargo.
Tankerman-PIC LG	Advanced Liquefied Gas Tanker Operations	---
Tankerman-PIC (Barge) DL	Advanced Oil Tanker Operations <i>or</i> Advanced Chemical Tanker Operations	Mariners should have the endorsement appropriate to the vessel's cargo. STCW endorsement will have a limitation to non-self propelled vessels.
Tankerman-PIC (Barge) LG	Advanced Liquefied Gas Tanker Operations	STCW endorsement will have a limitation to non-self propelled vessels.
Tankerman-Engineer DL	Advanced Oil Tanker Operations <i>or</i> Advanced Chemical Tanker Operations	Mariners should have the endorsement appropriate to the vessel's cargo. STCW endorsement will have a limitation to maintenance and repair of cargo equipment.
Tankerman-Engineer LG	Advanced Liquefied Gas Tanker Operations	STCW endorsement will have a limitation to maintenance and repair of cargo equipment.

2. QUALIFICATION REQUIREMENTS FOR BASIC OIL AND CHEMICAL TANKER CARGO OPERATIONS ENDORSEMENTS.

- a. As specified in 46 CR 13.609, to qualify for an STCW endorsement for basic oil and chemical tanker operations, a mariner must qualify for a national endorsement as Tankerman-Assistant DL (46 CFR 13.401) and provide evidence of meeting the standards of competence in Table A-V/1-1-1 of the STCW Code.
- b. In order for mariners to qualify for the national endorsement of Tankerman-Assistant DL, a mariner must present evidence of:
  - 1) Completion of an approved Basic Fire Fighting or Tankerman Fire Fighting course within 5 years of the date of application for the endorsement, unless he or she has previously submitted such a certificate for another endorsement on their Merchant Mariner Credential (MMC); and
  - 2) Either:
    - i) Completion of a Coast Guard approved *Tankship: Familiarization (Dangerous Liquids)* course within the previous 5 years; or
    - ii) At least 90 days of deck service on tank ships or self-propelled tank vessels certified to carry dangerous liquids and successfully complete a professional examination on the topics identified in 46 CFR Table 13.121(e).
- c. Mariners who complete the course or professional examination required for the national endorsement for Tankerman-Assistant DL will be considered to have met standards of competence in Table A-V/1-1-1 of the STCW Code.
- d. As specified in 46 CFR 13.609(b), mariners holding valid Tankerman-Assistant DL or Tankerman-Engineer endorsements issued prior to March 24, 2014, may be issued an STCW endorsement for basic oil and chemical tanker cargo operations without meeting the requirements of paragraph (2)(a) of this enclosure. On or after March 24, 2014, all mariners applying for an original endorsement in basic oil or chemical tanker cargo operations must meet the requirements in paragraph (2)(a) of this enclosure.

3. QUALIFICATION REQUIREMENTS FOR BASIC LIQUEFIED GAS TANKER CARGO OPERATIONS ENDORSEMENTS.

- a. As specified in 46 CFR 13.611, to qualify for an STCW endorsement for basic liquefied gas tanker operations, a mariner must qualify for a national endorsement as Tankerman-Assistant Liquefied Gases (LG) (46 CFR 13.401) and provide evidence of meeting the standards of competence in Table A-V/1-2-1 of the STCW Code.
- b. In order for mariners to qualify for the national endorsement of Tankerman-Assistant LG, a mariner must present evidence of:

- 1) Completion of an approved Basic Fire Fighting or Tankerman Fire Fighting course within 5 years of the date of application for the endorsement, unless he or she has previously submitted such a certificate for another endorsement on their MMC; and
  - 2) Either:
    - i) Completion of a Coast Guard approved *Tankship: Familiarization (Liquefied Gases)* course within the previous 5 years; or
    - ii) At least 90 days of deck service on tank ships or self-propelled tank vessels certified to carry liquefied gases and successfully complete a professional examination for the topics identified in 46 CFR Table 13.121(e).
  - c. Mariners who complete the course or professional examination required for the national endorsement for Tankerman-Assistant LG will be considered to have met standards of competence in Table A-V/1-2-1 of the STCW Code.
  - d. As specified in 13.611(b), mariners holding a valid Tankerman-Assistant LG or Tankerman-Engineer endorsement issued prior to March 24, 2014, will be issued an STCW endorsement for basic liquefied gas tanker cargo operations without meeting the requirements of paragraph (3)(a), above. On or after March 24, 2014, all mariners applying for an original endorsement in basic liquefied gas tanker cargo operations must meet the requirements in paragraph (3)(a) of this enclosure.
4. QUALIFICATION REQUIREMENTS FOR ADVANCED OIL TANKER CARGO OPERATIONS ENDORSEMENTS.
- a. As specified in 46 CFR 13.603, to qualify for an STCW endorsement for advanced oil tanker operations, a mariner must:
    - 1) Qualify for a national endorsement as Tankerman-PIC DL (46 CFR 13.201);
    - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-2 of the STCW Code; and
    - 3) Provide evidence of 90 days of sea service onboard oil tankers. As defined in 46 CFR 10.107, for the purposes of qualifying for this endorsement, an “oil tanker” is a tank vessel that is certificated to carry oil cargoes. This includes product tankers that are certificated to carry both oil and chemical cargoes. The Coast Guard will accept service submitted to qualify for the national endorsement of Tankerman-PIC DL, provided that the service was on oil tankers.
  - b. As specified in 46 CFR 13.603(a)(2), mariners must demonstrate the standards of competence in Table A-V/1-1-2 of the STCW Code. Mariners may be considered to have met this requirement if they have completed a Coast Guard approved *Tank Ship: Dangerous Liquids* course and provide a statement signed by the Master or Chief Mate of an oil tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of dangerous liquid cargo, including those

operations specified in 46 CFR 13.127(a)(4)(i) through (xiii). The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC DL by 46 CFR 13.203 may be used for this purpose. However, because some of the persons identified in 46 CFR 13.205 will not have personally witnessed the demonstrations of competence, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it is signed by the Master or Chief Mate of the oil tanker. A sample letter that may be used for this purpose is provided as Enclosure (2).

- c. Mariners may qualify for an endorsement in advanced oil tanker cargo operations with a limitation to non-self-propelled vessels. To qualify for this endorsement, a mariner must:
  - 1) Qualify for a national endorsement as Tankerman-PIC (Barge) DL (46 CFR 13.301);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-2 of the STCW Code; and
  - 3) Provide evidence of at least 90 days of vessel-based service on oil tank vessels or shore-based service on non-self propelled oil tank vessels. For the purposes of qualifying for an advanced oil tanker operations endorsement, “oil tankers” includes tank barges and integrated or articulated tug barge vessels (ITBs and ATBs) certified to carry oil cargoes. The Coast Guard will accept service submitted to qualify for a national endorsement as Tankerman-PIC (Barge) DL, provided that the service was on oil tankers.
- d. Mariners may be considered to have met the standards of competence in Table A-V/1-1-2 of the STCW Code if they have completed a Coast Guard approved *Tank Ship Dangerous Liquids* course and provide a statement signed by the Master or Chief Mate of an oil tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of dangerous liquid cargo, including those operations specified in 46 CFR 13.127(a)(4)(i) through (xiii). The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC (Barge) DL by 46 CFR 13.303 may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Master or Chief Mate of an oil tanker. A sample letter that may be used for this purpose is provided as Enclosure (2).
- e. Mariners may qualify for an endorsement in advanced oil tanker cargo operations with a limitation to maintenance and repair of cargo equipment. To qualify for this endorsement, a mariner must:
  - 1) Qualify for a national endorsement as Tankerman-Engineer (46 CFR 13.501);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-2 of the STCW Code that are applicable to maintenance and repair of cargo equipment; and
  - 3) Provide evidence of at least 90 days of service as an engineering officer and/or rating or cadet on oil tankers. The Coast Guard will accept service submitted to qualify for

a national endorsement as Tankerman-Engineer, provided that the service was on oil tankers.

- f. Mariners may be considered to have met the standards of competence in Table A-V/1-1-2 of the STCW Code for an endorsement limited to maintenance and repair of cargo equipment if they have completed a Coast Guard approved *Tank Ship: Dangerous Liquids* course and provide a statement that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of fuel oil, including those operations specified in 46 CFR 13.127(a)(5)(i) through (x). The documentation required for the national endorsement as Tankerman-Engineer may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Chief Engineer of the oil tanker. A sample letter that may be used for this purpose is provided as Enclosure (3).
- g. Mariners holding an endorsement in advanced chemical tanker cargo operations or advanced liquefied gas tanker cargo operations may qualify for an equivalent endorsement in advanced oil tanker cargo operations by completing, in a supernumerary capacity, a Coast Guard approved training program on board oil tankers. The program must be at least one month and include at least three loading and three discharge operations.
- h. As specified in 46 CFR 13.603(e) and 13.605(e), mariners holding valid endorsements as Tankerman-PIC DL, Tankerman-PIC (Barge) DL, or Tankerman-Engineer issued prior to March 24, 2014, will be issued STCW endorsements for advanced oil tanker cargo operations and chemical tanker cargo operations, with the appropriate limitations without meeting the requirements of those sections. Mariners holding an endorsement as Tankerman-PIC (Barge) DL will be limited to non-self-propelled vessels. Mariners holding an endorsement as Tankerman-Engineer will be limited to maintenance and repair of cargo equipment. On or after March 24, 2014, all mariners applying for an original endorsement in advanced oil tanker cargo operations must meet the requirements of 46 CFR 13.603 and 13.605.

5. QUALIFICATION REQUIREMENTS FOR ADVANCED CHEMICAL TANKER CARGO OPERATIONS ENDORSEMENTS.

- a. As specified in 46 CR 13.605, to qualify for an STCW endorsement for advanced chemical tanker operations, a mariner must:
  - 1) Qualify for a national endorsement as Tankerman-PIC DL (46 CFR 13.201);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-3 of the STCW Code; and
  - 3) Provide evidence of 90 days of sea service onboard chemical tankers. As defined in 46 CFR 10.107, for the purposes of qualifying for this endorsement, a “chemical tanker” is a tank vessel that is certificated to carry chemical cargoes. This includes product tankers that are certificated to carry both oil and chemical cargoes. The

Coast Guard will accept service submitted to qualify for the national endorsement of Tankerman-PIC DL, provided that the service was on chemical tankers.

- b. Mariners may be considered to have met the standards of competence in Table A-V/1-1-3 of the STCW Code if they have completed an approved *Tank Ship: Dangerous Liquids* course and provide a statement signed by the Master or Chief Mate of the chemical tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of dangerous liquid cargo, including those operations specified in 46 CFR 13.127(a)(4)(i) through (xiii). The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC DL by 46 CFR 13.203 may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Master or Chief Mate of the chemical tanker. A sample letter that may be used for this purpose is provided as Enclosure (2).
- c. Mariners may qualify for an endorsement in advanced chemical tanker cargo operations with a limitation to non-self-propelled vessels. To qualify for this endorsement, a mariner must:
  - 1) Qualify for a national endorsement as Tankerman-PIC (Barge) DL (46 CFR 13.301);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-3 of the STCW Code; and
  - 3) Provide evidence of at least 90 days of shore or vessel based service on chemical tankers. For the purposes of qualifying for an advanced chemical tanker operations endorsement, “chemical tankers” includes tank barges, ITBs, and ATBs certified to carry chemicals. The Coast Guard will accept service submitted to qualify for a national endorsement as Tankerman-PIC (Barge) DL, provided that the service was on chemical tankers.
- d. Mariners may be considered to have met the standards of competence in Table A-V/1-1-3 of the STCW Code if they have completed a Coast Guard approved *Tank Ship: Dangerous Liquids* course and provide a statement signed by the Master or Chief Mate of the chemical tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of dangerous liquid cargo, including those operations specified in 46 CFR 13.127(a)(4)(i) through (xiii). The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC (Barge) DL by 46 CFR 13.303 may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Master or Chief Mate of a chemical tanker. A sample letter that may be used for this purpose is provided as Enclosure (2).
- e. Mariners may qualify for an endorsement in advanced chemical tanker cargo operations with a limitation to maintenance and repair of cargo equipment. To qualify for this endorsement, a mariner must:

- 1) Qualify for a national endorsement as Tankerman-Engineer (46 CFR 13.501);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-1-3 of the STCW Code that are applicable to maintenance and repair of cargo equipment; and
  - 3) Provide evidence of at least 90 days of service as an engineering officer and/or rating or cadet on chemical tankers. The Coast Guard will accept service submitted to qualify for a national endorsement as Tankerman-Engineer, provided that the service was on chemical tankers.
- f. Mariners may be considered to have met the standards of competence in Table A-V/1-1-3 of the STCW Code for an endorsement limited to maintenance and repair of cargo equipment if they have completed a Coast Guard approved *Tank Ship: Dangerous Liquids* course and provide a statement signed by the Chief Engineer or Master of the chemical tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of fuel oil, including those operations specified in 46 CFR 13.127(a)(5)(i) through (x). The documentation required for the national endorsement as Tankerman-Engineer may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Chief Engineer or Master of the chemical tanker. A sample letter that may be used for this purpose is provided as Enclosure (3).
- g. Mariners holding an endorsement in advanced oil tanker cargo operations or advanced liquefied gas tanker cargo operations may qualify for an equivalent endorsement in advanced chemical tanker cargo operations by completing, in a supernumerary capacity, an approved training program onboard chemical tankers. The program must be at least one month and include at least three loading and three discharge operations.
- h. As specified in 46 CFR 13.603(e) and 13.605(e), mariners holding valid endorsements as Tankerman-PIC DL, Tankerman-PIC (Barge) DL, or Tankerman-Engineer issued prior to March 24, 2014, will be issued STCW endorsements for advanced oil and chemical tanker cargo operations, with the appropriate limitations without meeting the requirements of those sections. Mariners holding an endorsement as Tankerman-PIC (Barge) DL will be limited to non-self-propelled vessels. Mariners holding an endorsement as Tankerman-Engineer will be limited to maintenance and repair of cargo equipment. On or after March 24, 2014, all mariners applying for an original endorsement in advanced chemical tanker cargo operations must meet the requirements of 46 CFR 13.603 and 13.605.
6. QUALIFICATION REQUIREMENTS FOR ADVANCED LIQUEFIED GAS TANKER CARGO OPERATIONS ENDORSEMENTS.
- a. As specified in 46 CR 13.607, to qualify for an STCW endorsement for advanced liquefied gas tanker operations, a mariner must:
    - 1) Qualify for a national endorsement as Tankerman-PIC LG (46 CFR 13.201);

- 2) Provide evidence of meeting the standards of competence in Table A-V/1-2-2 of the STCW Code; and
  - 3) Provide evidence of 90 days of sea service on liquefied gas tankers. The Coast Guard will accept service submitted to qualify for the national endorsement of Tankerman-PIC LG, provided that the service was on liquefied gas tankers.
- b. Mariners may be considered to have met the standards of competence in Table A-V/1-2-2 of the STCW Code if they have completed a Coast Guard approved *Tank Ship: Liquefied Gases* course and provide a statement signed by the Master or Chief Mate of the liquefied gas tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of liquefied gas cargoes. The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC LG by 46 CFR 13.203(b) may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Master or Chief Mate of the liquefied gas tanker. A sample letter that may be used for this purpose is provided as Enclosure (2). This sample should be revised as needed for use on liquefied gas tankers.
- c. Mariners may qualify under 46 CR 13.607 for an endorsement in advanced liquefied gas tanker cargo operations with a limitation to non-self-propelled vessels. To qualify for this endorsement, a mariner must:
- 1) Qualify for a national endorsement as Tankerman-PIC (Barge) LG (46 CFR 13.301);
  - 2) Provide evidence of meeting the standards of competence in Table A-V/1-2-2 of the STCW Code; and,
  - 3) Provide evidence of at least 90 days of shore or vessel based service on liquefied gas tankers. For the purposes of qualifying for an advanced liquefied gas tanker operations endorsement, “liquefied gas tankers” includes ITBs and ATBs certified to carry liquefied gas cargoes. The Coast Guard will accept service submitted to qualify for a national endorsement as Tankerman-PIC (Barge) LG, provided that the service was on liquefied gas tankers.
- d. Mariners may be considered to have met the standards of competence in Table A-V/1-2-2 of the STCW Code if they have completed a Coast Guard approved *Tank Ship: Liquefied Gases* course and provide a statement signed by the Master or Chief Mate of the liquefied gas tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of liquefied gas cargoes. The documentation of the cargo transfers required for the national endorsement as Tankerman-PIC (Barge) DL by 46 CFR 13.303 may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Master or Chief Mate of the liquefied gas tanker. A sample letter that may be used for this purpose is provided as Enclosure (2). This sample should be revised as needed for use on liquefied gas tankers.

- e. Mariners may qualify under 46 CR 13.607 for an endorsement in advanced liquefied gas tanker cargo operations with a limitation to maintenance and repair of cargo equipment. To qualify for this endorsement, a mariner must:
    - 1) Qualify for a national endorsement as Tankerman-Engineer (46 CFR 13.501);
    - 2) Provide evidence of meeting the standards of competence in Table A-V/1-2-2 of the STCW Code that are applicable to maintenance and repair of cargo equipment; and,
    - 3) Provide evidence of at least 90 days of service as an engineering officer and/or rating or cadet on liquefied gas tankers. The Coast Guard will accept service submitted to qualify for a national endorsement as Tankerman-Engineer (LG), provided that the service was on liquefied gas tankers.
  - f. Mariners may be considered to have met the standards of competence in Table A-V/1-2-2 of the STCW Code for an endorsement limited to maintenance and repair of cargo equipment if they have completed a Coast Guard approved *Tank Ship: Liquefied Gases* course and provide a statement signed by the Chief Engineer or Master of the liquefied gas tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of liquefied gas cargoes, including those operations specified in 46 CFR 13.127(a)(5)(i) through (x). The documentation required for the national endorsement as Tankerman-Engineer may be used. However, as explained in paragraph 4.b of this enclosure, this letter will only be acceptable as evidence of meeting the standard of competence in the STCW Code if it was signed by the Chief Engineer or Master of the liquefied gas tanker. A sample letter that may be used for this purpose is provided as Enclosure (3).
  - g. Mariners holding an endorsement in advanced oil tanker cargo operations or advanced chemical tanker cargo operations may qualify for an equivalent endorsement in advanced liquefied gas tanker cargo operations by completing, in a supernumerary capacity, an approved training program on board liquefied gas tankers. The program must be at least one month in duration and include at least three loading and three discharge operations.
  - h. As specified in 46 CFR 13.607(e), mariners holding valid Tankerman-PIC LG, Tankerman-PIC (Barge) LG gas, or Tankerman-Engineer endorsements issued prior to March 24, 2014, will be issued an STCW endorsement for advanced liquefied gas tanker cargo operations with the appropriate limitations without meeting the requirements above. Mariners holding an endorsement as Tankerman-PIC (Barge) LG will be limited to non-self-propelled vessels. Mariners holding an endorsement as Tankerman-Engineer will be limited to maintenance and repair of cargo equipment. On or after March 24, 2014, all mariners applying for an original endorsement in advanced liquefied gas tanker cargo operations must meet the requirements above.
7. RENEWAL OF STCW TANKER OPERATIONS ENDORSEMENTS.

To renew an STCW endorsement for tanker operations, mariners must meet the general requirements of 46 CFR 10.227 for renewing a MMC, except for the professional requirements in 46 CFR 10.227(e)(1). In addition, mariners must meet the following

additional requirements in 46 CFR 13.120 for renewal of their national tankerman endorsement:

- a. For endorsements for Tankerman-PIC, present evidence of:
  - 1) At least 90 days of service during the preceding 5 years onboard a tank vessel for which the endorsement is valid, performing duties appropriate to the tankerman endorsement held; and participation in at least two transfers of liquid cargo in bulk of the type for which the endorsement is valid within the preceding 5 years; or
  - 2) Completion of a Coast Guard approved course for *Tankship: Dangerous Liquids* or *Tankship: Liquefied Gases*, appropriate for the endorsement to be renewed, within the previous 5 years.
- b. For endorsements as Tankerman-Assistant, present evidence of:
  - 1) At least 90 days of service during the preceding 5 years onboard a tank vessel for which the endorsement is valid, performing duties appropriate to the tankerman endorsement held; or
  - 2) Completion of a Coast Guard approved course for *Tankship: Familiarization (Dangerous Liquids)* or *Tankship: Familiarization (Liquefied Gases)*, appropriate for the endorsement to be renewed, within the previous 5 years.
- c. For endorsements as Tankerman-PIC (Barge), present evidence of:
  - 1) Participation in at least two transfers of liquid cargo in bulk of the type for which the endorsement is valid, within the preceding 5 years; or
  - 2) Completion of a course approved by the Coast Guard for this purpose, appropriate for the endorsement to be renewed, within the previous 5 years.
- d. For endorsements as Tankerman-Engineer, present evidence of:
  - 1) At least 90 days of service during the preceding 5 years onboard a tank vessel for which the endorsement is valid, performing duties appropriate to the tankerman endorsement held; or
  - 2) Completion of a course approved by the Coast Guard for this purpose, appropriate for the endorsement to be renewed, within the previous 5 years.